

INTERNATIONAL SEARCH REPORT

In: ional Application No
PCT/GB2004/001639

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07C29/42 C07C33/04 C07C31/20 C07C33/044 C07C33/035

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, WPI Data, PAJ, BEILSTEIN Data, CHEM ABS Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02/094741 A (CARREIRA ERICK MORAN ; ADGER BRIAN MICHAEL (GB); ICI PLC (GB)) 28 November 2002 (2002-11-28) the whole document	1-10
Y	FRANTZ D E ET AL: "FACILE ENANTIOSELECTIVE SYNTHESIS OF PROPARGYLIC ALCOHOLS BY DIRECT ADDITION OF TERMINAL ALKYNES TO ALDEHYDES" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US, vol. 122, 1 March 2000 (2000-03-01), pages 1806-1807, XP000931149 ISSN: 0002-7863 the whole document	1-9

-/--

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

A document defining the general state of the art which is not considered to be of particular relevance

E earlier document but published on or after the international filing date

L document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

* & * document member of the same patent family

Date of the actual completion of the international search

2 August 2004

Date of mailing of the international search report

12/08/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Lorenzo Varela, M.J.

INTERNATIONAL SEARCH REPORT

 International Application No
 PCT/GB2004/001639

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	BOYALL D ET AL: "Enantioselective addition of 2-methyl-3-butyn-2-ol to aldehydes: preparation of 3-hydroxy-1-butyne" ORGANIC LETTERS, ACS, WASHINGTON, DC, US, vol. 2, no. 26, 28 November 2000 (2000-11-28), pages 4233-4236, XP002207131 ISSN: 1523-7060 the whole document	1-10
Y	BURK M J ET AL: "Highly enantioselective hydrogenation of beta-keto esters under mild conditions" JOURNAL OF THE AMERICAN CHEMICAL SOCIETY, AMERICAN CHEMICAL SOCIETY, WASHINGTON, DC, US, vol. 117, no. 15, 19 April 1995 (1995-04-19), pages 4423-4424, XP002207132 ISSN: 0002-7863 the whole document	1-9
Y	BACH J ET AL: "Stereoselective Reduction of Unsaturated 1,4-Diketones. A Practical Route to Chiral 1,4-Diols" TETRAHEDRON LETTERS, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 38, no. 6, 10 February 1997 (1997-02-10), pages 1091-1094, XP004033941 ISSN: 0040-4039 the whole document	1-9
Y	WU K-M ET AL: "Structural effects on $\Delta^{1,5}$ -sigmatropic hydrogen shifts of vinylallenes" JOURNAL OF ORGANIC CHEMISTRY, AMERICAN CHEMICAL SOCIETY, EASTON, US, vol. 55, no. 14, 6 July 1990 (1990-07-06), pages 4381-4392, XP002207137 ISSN: 0022-3263 the whole document	1-9
Y	US 5 110 966 A (EVANS JONATHAN C ET AL) 5 May 1992 (1992-05-05) the whole document	1-9
Y	DATABASE BEILSTEIN 'Online! BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; 1990, XP002289664 retrieved from XFIRE accession no. RID2868854 abstract	1-9

-/--

INTERNATIONAL SEARCH REPORT

International Application No

PCT/GB2004/001639

C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DATABASE BEILSTEIN 'Online! BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; 1933, XP002289665 retrieved from XFIRE accession no. RID636078 abstract -----	1-9
Y	DATABASE BEILSTEIN 'Online! BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; 1962, XP002289666 retrieved from XFIRE accession no. RID1229231 abstract -----	1-9
Y	DATABASE BEILSTEIN 'Online! BEILSTEIN INSTITUTE FOR ORGANIC CHEMISTRY, FRANKFURT-MAIN, DE; 1989, XP002289667 retrieved from XFIRE accession no. RID2868243 abstract -----	1-9

INTERNATIONAL SEARCH REPORT

In **onal Application No**
PCT/GB2004/001639

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
WO 02094741	A	28-11-2002	CA 2448183 A1	28-11-2002
			EP 1389174 A1	18-02-2004
			WO 02094741 A1	28-11-2002
			US 2004143143 A1	22-07-2004
US 5110966	A	05-05-1992	AT 147393 T	15-01-1997
			AU 659847 B2	01-06-1995
			AU 1998492 A	25-01-1993
			CA 2109954 A1	07-01-1993
			DE 69216611 D1	20-02-1997
			DE 69216611 T2	22-05-1997
			DK 589965 T3	27-01-1997
			EP 0589965 A1	06-04-1994
			ES 2099264 T3	16-05-1997
			FI 935699 A	17-12-1993
			GR 3022417 T3	30-04-1997
			HU 69764 A2	28-09-1995
			IE 922006 A1	30-12-1992
			JP 6508631 T	29-09-1994
			KR 220877 B1	01-10-1999
			NO 934676 A	17-12-1993
			NZ 243155 A	25-03-1994
			WO 9300347 A1	07-01-1993
			US 5157167 A	20-10-1992